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L9: Entry 1 of 50

File: PGPB

Jan 2, 2003

DOCUMENT-IDENTIFIER: US 20030004894 A1

TITLE: System, method and article of manufacture for secure network electronic payment and credit collection

Summary of Invention Paragraph (4):

[0002] It is desirable for a computer operated under the control of a merchant to obtain information offered by a customer and transmitted by a computer operating under the control of the customer over a publicly accessible packet-switched network (e.g., the Internet) to the computer operating under the control of the merchant, without risking the exposure of the information to interception by third parties that have access to the network, and to assure that the information is from an authentic source. It is further desirable to have the ability for the merchant to transmit information, including a subset of the information provided by the customer, over such a network to a payment gateway computer system that is authorized, by a bank or other financial institution that has the responsibility of providing payment on behalf of the customer, to authorize a commercial transaction on behalf of such a financial institution, without the risk of exposing that information to interception by third parties. Such institutions include, for example, financial institutions offering credit or debit card services.

Summary of Invention Paragraph (6):

[0004] Another such attempt to provide such a secure transmission channel is a general-purpose secure communication protocol such as Netscape, Inc.'s Secure Sockets Layer (hereinafter "SSL"), as described in Freier, Karlton & Kocher (hereinafter "Freier"), The SSL Protocol Version 3.0, March 1996, and hereby incorporated by reference. SSL provides a means for secure transmission between two computers. SSL has the advantage that it does not require special-purpose software to be installed on the customer's computer because it is already incorporated into widely available software that many people utilize as their standard Internet access medium, and does not require that the customer interact with any third-party certification authority. Instead, the support for SSL may be incorporated into software already in use by the customer, e.g., the Netscape Navigator World Wide Web browsing tool. However, although a computer on an SSL connection may initiate a second SSL connection to another computer, a drawback to the SSL approach is each SSL connection supports only a two-computer connection. Therefore, SSL does not provide a mechanism for transmitting encoded information to a merchant for retransmission to a payment gateway such that a subset of the information is readable to the payment gateway but not to the merchant. Although SSL allows for robustly secure two-party data transmission, it does not meet the ultimate need of the electronic commerce market for robustly secure three-party data transmission. Other examples of general-purpose secure communication protocols include Private Communications Technology ("PCT") from Microsoft, Inc., Secure Hyper-Text Transport Protocol ("SHTTP") from Theresa Systems, Shen, Kerberos, Photuris, Pretty Good Privacy ("PGP") and Ipv6 which meets the IPSEC criteria. One of ordinary skill in the art will readily comprehend that any of the general-purpose secure communication protocols can be substituted for the SSL transmission protocol without undue experimentation.

Detail Description Paragraph (2):

[0023] A preferred embodiment of a system in accordance with the present invention is preferably practiced in the context of a personal computer such as the IBM PS/2, Apple Macintosh computer or UNIX based workstation. A representative hardware environment is depicted in FIG. 1A, which illustrates a typical hardware configuration of a workstation in accordance with a preferred embodiment having a central processing unit 10, such as a microprocessor, and a number of other units interconnected via a system bus 12. The workstation shown in FIG. 1A includes a Random Access Memory (RAM) 14, Read Only Memory (ROM) 16, an I/O adapter 18 for connecting peripheral devices such as disk storage units 20 to the bus 12, a user interface adapter 22 for connecting a keyboard

24, a mouse 26, a speaker 28, a microphone 32, and/or other user interface devices such as a touch screen (not shown) to the bus 12, communication adapter 34 for connecting the workstation to a communication network (e.g., a data processing network) and a display adapter 36 for connecting the bus 12 to a display device 38. The workstation typically has resident thereon an operating system such as the Microsoft Windows Operating System (OS), the IBM OS/2 operating system, the MAC OS, or UNIX operating system. Those skilled in the art will appreciate that the present invention may also be implemented on platforms and operating systems other than those mentioned.

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L9: Entry 39 of 50

File: USPT

Nov 30, 1999

DOCUMENT-IDENTIFIER: US 5996076 A

TITLE: System, method and article of manufacture for secure digital certification of electronic commerce

Brief Summary Text (13):

It is desirable for a computer operated under the control of a merchant to obtain information offered by a customer and transmitted by a computer operating under the control of the customer over a publicly accessible packet-switched network (e.g., the Internet) to the computer operating under the control of the merchant, without risking the exposure of the information to interception by third parties that have access to the network, and to assure that the information is from an authentic source. It is further desirable for the merchant to transmit information, including a subset of the information provided by the customer, over such a network to a payment gateway computer system that is authorized, by a bank or other financial institution that has the responsibility of providing payment on behalf of the customer, to authorize a commercial transaction on behalf of such a financial institution, without the risk of exposing that information to interception by third parties. Such institutions include, for example, financial institutions offering credit or debit card services.

Brief Summary Text (15):

Another such attempt to provide such a secure transmission channel is a general-purpose secure communication protocol such as Netscape, Inc.'s Secure Sockets Layer (hereinafter "SSL"), as described in Freier, Karlton & Kocher (hereinafter "Freier"), The SSL Protocol Version 3.0, March 1996, and hereby incorporated by reference. SSL provides a means for secure transmission between two computers. SSL has the advantage that it does not require special-purpose software to be installed on the customer's computer because it is already incorporated into widely available software that many people utilize as their standard Internet access medium, and does not require that the customer interact with any third-party certification authority. Instead, the support for SSL may be incorporated into software already in use by the customer, e.g., the Netscape Navigator World Wide Web browsing tool. However, although a computer on an SSL connection may initiate a second SSL connection to another computer, a drawback to the SSL approach is each SSL connection supports only a two-computer connection. Therefore, SSL does not provide a mechanism for transmitting encoded information to a merchant for retransmission to a payment gateway such that a subset of the information is readable to the payment gateway but not to the merchant. Although SSL allows for robustly secure two-party data transmission, it does not meet the ultimate need of the electronic commerce market for robustly secure three-party data transmission. Other examples of general-purpose secure communication protocols include Private Communications Technology ("PCT") from Microsoft, Inc., Secure Hyper-Text Transport Protocol ("SHTTP") from Theresa Systems, Shen, Kerberos, Photuris, Pretty Good Privacy ("PGP") and Ipv6 which meets the IPSEC criteria. One of ordinary skill in the art readily comprehends that any of the general-purpose secure communication protocols can be substituted for the SSL transmission protocol without undue experimentation.

Detailed Description Text (2):

A preferred embodiment of a system in accordance with the present invention is preferably practiced in the context of a personal computer such as the IBM PS/2, Apple Macintosh computer or UNIX based workstation. A representative hardware environment is depicted in FIG. 1A, which illustrates a typical hardware configuration of a workstation in accordance with a preferred embodiment having a central processing unit 10, such as a microprocessor, and a number of other units interconnected via a system bus 12. The workstation shown in FIG. 1A includes a Random Access Memory (RAM) 14, Read Only Memory (ROM) 16, an I/O adapter 18 for connecting peripheral devices such as disk storage units 20 to the bus 12, a user interface adapter 22 for connecting a keyboard 24, a mouse 26, a speaker 28, a microphone 32, and/or other user interface devices such

as a touch screen (not shown) to the bus 12, communication adapter 34 for connecting the workstation to a communication network (e.g., a data processing network) and a display adapter 36 for connecting the bus 12 to a display device 38. The workstation typically has resident thereon an operating system such as the Microsoft Windows Operating System (OS), the IBM OS/2 operating system, the MAC OS, or UNIX operating system. Those skilled in the art appreciate that the present invention may also be implemented on platforms and operating systems other than those mentioned.

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L10: Entry 6 of 9

File: USPT

Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6373950 B1

TITLE: System, method and article of manufacture for transmitting messages within messages utilizing an extensible, flexible architecture

Abstract Text (1):

Secure transmission of data is provided between a plurality of computer systems over a public communication system, such as the Internet. Secure transmission of data is provided from a customer computer system to a merchant computer system, and for the further secure transmission of payment information regarding a payment instrument from the merchant computer system to a payment gateway computer system. The payment gateway system formats transaction information appropriately and transmits the transaction to the particular host legacy system. The host legacy system evaluates the payment information and returns a level of authorization of credit to the gateway which packages the information to form a secure transaction which is transmitted to the merchant which is in turn communicated to the customer by the merchant. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are value-added extensions to the basic SET protocol, is provided by a preferred embodiment of the invention. The merchant can then determine whether to accept the payment instrument tendered or deny credit and require another payment instrument. An architecture that provides support for additional message types that are not SET compliant is provided by a preferred embodiment of the invention. An architecture for transmitting messages from a merchant-controlled computer system, such as a server, to an acquirer-controlled computer system, such as a gateway, is disclosed. The merchant-controlled computer system defines messages as text name-value pairs, and encrypts them using an encryption scheme such as PKCS-7. The encrypted name-value pairs are encoded into a text sequence using a text-encoding scheme such as Multipurpose Internet Mail Extensions encoding. The messages are transmitted to the acquirer-controlled computer as payload data in a transmission block. The messages may be used, for example, to command the acquirer-controlled computer to perform settlement/reconciliation, to notify the acquirer-controlled computer of a logon or logoff operation, or to request the acquirer-controlled computer to transmit its parameter values.

Brief Summary Text (13):

It is desirable for a computer operated under the control of a merchant to obtain information offered by a customer and transmitted by a computer operating under the control of the customer over a publicly accessible packet-switched network (e.g., the Internet) to the computer operating under the control of the merchant, without risking the exposure of the information to interception by third parties that have access to the network, and to assure that the information is from an authentic source. It is further desirable for the merchant to transmit information, including a subset of the information provided by the customer, over such a network to a payment gateway computer system that is designated, by a bank or other financial institution that has the responsibility of providing payment on behalf of the customer, to authorize a commercial transaction on behalf of such a financial institution, without the risk of exposing that information to interception by third parties. Such institutions include, for example, financial institutions offering credit or debit card services.

Brief Summary Text (15):

Another such attempt to provide such a secure transmission channel is a general-purpose secure communication protocol such as Netscape, Inc.'s Secure Sockets Layer (hereinafter "SSL"), as described in Freier, Karlton & Kocher (hereinafter "Freier"), The SSL Protocol Version 3.0, March 1996, and hereby incorporated by reference. SSL provides a means for secure transmission between two computers. SSL has the advantage that it does not require special-purpose software to be installed on the customer's

computer because it is already incorporated into widely available software that many people utilize as their standard Internet access medium, and does not require that the customer interact with any third-party certification authority. Instead, the support for SSL may be incorporated into software already in use by the customer, e.g., the Netscape Navigator World Wide Web browsing tool. However, although a computer on an SSL connection may initiate a second SSL connection to another computer, a drawback to the SSL approach is each SSL connection supports only a two-computer connection. Therefore, SSL does not provide a mechanism for transmitting encoded information to a merchant for retransmission to a payment gateway such that a subset of the information is readable to the payment gateway but not to the merchant. Although SSL allows for robustly secure two-party data transmission, it does not meet the ultimate need of the electronic commerce market for robustly secure three-party data transmission. Other examples of general-purpose secure communication protocols include Private Communications Technology ("PCT") from Microsoft, Inc., Secure Hyper-Text Transport Protocol ("SHTTP") from Terisa Systems, Shen, Kerberos, Photuris, Pretty Good Privacy ("PGP") which meets the IPSEC criteria. One of ordinary skill in the art readily comprehends that any of the general-purpose secure communication protocols can be substituted for the SSL transmission protocol without undue experimentation.

Detailed Description Text (2):

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L10: Entry 1 of 9

File: PGPB

Dec 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020194120

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020194120 A1

TITLE: Consultative decision engine method and system for financial transactions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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☐ 2. Document ID: US 20020103752 A1

L10: Entry 2 of 9

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103752

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020103752 A1

TITLE: E-commerce payment solution

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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☐ 3. Document ID: US 20020029196 A1

L10: Entry 3 of 9

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020029196

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020029196 A1

TITLE: Vending machine for vending age-restricted products using a credit card and associated methods

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC	Draw Desc	Image
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☐ 4. Document ID: US 20010037250 A1

L10: Entry 4 of 9

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037250

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010037250 A1

TITLE: Method and apparatus for selling international travel tickets in combination with duty free goods

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWC	Draw Desc	Image
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☐ 5. Document ID: US 6473794 B1

L10: Entry 5 of 9

File: USPT

Oct 29, 2002

US-PAT-NO: 6473794

DOCUMENT-IDENTIFIER: US 6473794 B1

TITLE: System for establishing plan to test components of web based framework by displaying pictorial representation and conveying indicia coded components of existing network framework

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWC	Draw Desc	Image
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☐ 6. Document ID: US 6373950 B1

L10: Entry 6 of 9

File: USPT

Apr 16, 2002

US-PAT-NO: 6373950

DOCUMENT-IDENTIFIER: US 6373950 B1

TITLE: System, method and article of manufacture for transmitting messages within messages utilizing an extensible, flexible architecture

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWC	Draw Desc	Image
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☐ 7. Document ID: US 6163602 A

L10: Entry 7 of 9

File: USPT

Dec 19, 2000

US-PAT-NO: 6163602

DOCUMENT-IDENTIFIER: US 6163602 A

TITLE: System and method for unified telephone and utility consumption metering, reading, and processing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWC	Draw Desc	Image
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☐ 8. Document ID: US 5999908 A

L10: Entry 8 of 9

File: USPT

Dec 7, 1999

US-PAT-NO: 5999908

DOCUMENT-IDENTIFIER: US 5999908 A

TITLE: Customer-based product design module

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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RWC	Draw Desc	Image
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☐ 9. Document ID: US 5058030 A

L10: Entry 9 of 9

File: USPT

Oct 15, 1991

US-PAT-NO: 5058030

DOCUMENT-IDENTIFIER: US 5058030 A

TITLE: Optimizing mail processing by matching publisher and inserter entities

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMCL	Draw Desc	Image
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Terms	Documents
L9 and (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (consumer or customer)	9

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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L10</u>	L9 and (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (consumer or customer)	9	<u>L10</u>
<u>L9</u>	L2 and (read\$3 or config\$6) same(resid\$3 or locat\$6) same (operating system or os or application or utilities or tsr)	50	<u>L9</u>
<u>L8</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (program\$6 or software)	0	<u>L8</u>
<u>L7</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6)	0	<u>L7</u>
<u>L6</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (relevanc\$3 or program\$6 or software application or pars\$3)	0	<u>L6</u>
<u>L5</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (relevanc\$3 or program\$6 or software application or pars\$3) same inspect\$3	0	<u>L5</u>
<u>L4</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (determin\$36 or defin\$6) same (relevanc\$3 or program\$6 or software application or pars\$3) same inspect\$3	0	<u>L4</u>
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<u>L2</u>	(computer\$6 or network\$3 or database) same (broadcast\$6 or transfer\$6 or transmit\$6 or send\$3) near5 (document or fil\$3 or data or information or info) same (customer or consumer) same third adj party	198	<u>L2</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	(computer\$6 or network\$3 or database) same (broadcast\$6 or transfer\$6 or transmit\$6 or send\$3) near5 (document or fil\$3 or data or information or info) same (customer or consumer) same third adj party	86	<u>L1</u>

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US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L14

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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L14</u>	L11 and (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (consumer or customer)	2	<u>L14</u>
<u>L13</u>	L9 and (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (consumer or customer)	9	<u>L13</u>
<u>L12</u>	L11 and (read\$3 or config\$6) same(resid\$3 or locat\$6) same (operating system or os or application or utilities or tsr)	2	<u>L12</u>
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<u>L9</u>	L2 and (read\$3 or config\$6) same(resid\$3 or locat\$6) same (operating system or os or application or utilities or tsr)	50	<u>L9</u>
<u>L8</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6)same (program\$6 or software)	0	<u>L8</u>
<u>L7</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6)	0	<u>L7</u>
<u>L6</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (relevanc\$3 or program\$6 or software application or pars\$3)	0	<u>L6</u>
<u>L5</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (relevanc\$3 or program\$6 or software application or pars\$3) same inspect\$3	0	<u>L5</u>
<u>L4</u>	L2 and read\$3 same (resid\$6 or locat\$6) same (advice or warn\$4 or recall\$3 or advis\$4 or notify\$6) same (determin\$36 or defin\$6) same (relevanc\$3 or program\$6 or software application or pars\$3) same inspect\$3	0	<u>L4</u>
<u>L3</u>	L2 and read\$3 same (resid\$6 or includ\$3) same (advice or warn\$4 or recall\$ or safety advisory or notify\$6) same (determin\$36 or defin\$6) same (relevanc\$3 or program\$6 or software application or pars\$3) same inspect\$3 same librar\$4	0	<u>L3</u>
<u>L2</u>	(computer\$6 or network\$3 or database) same (broadcast\$6 or transfer\$6 or transmit\$6 or send\$3) near5 (document or fil\$3 or data or information or info) same (customer or consumer) same third adj party	198	<u>L2</u>
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<u>L1</u>	(computer\$6 or network\$3 or database) same (broadcast\$6 or transfer\$6 or transmit\$6 or send\$3) near5 (document or fil\$3 or data or information or info) same (customer or consumer) same third adj party	86	<u>L1</u>

END OF SEARCH HISTORY